FIG. 1

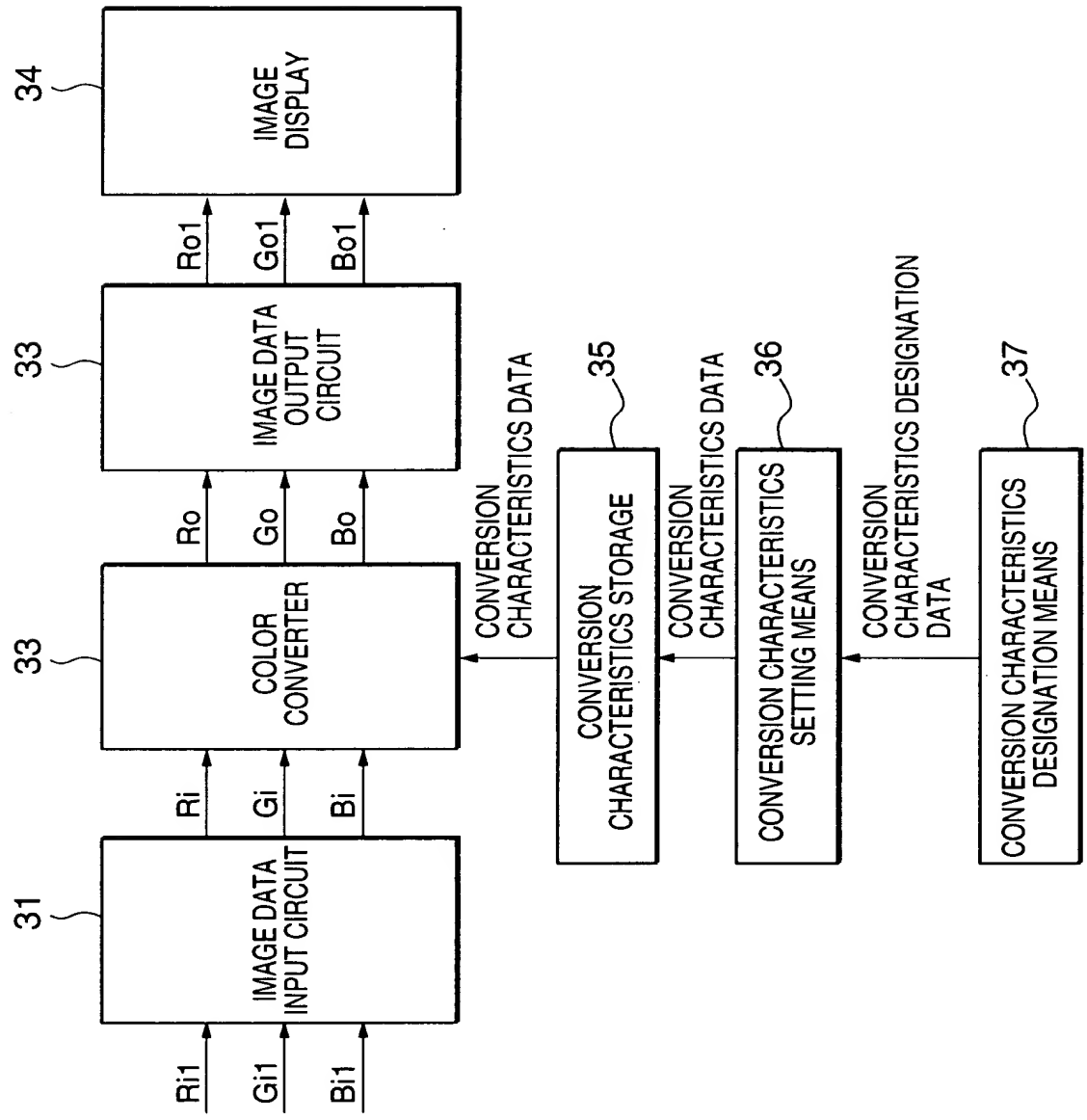

34
IMAGE DISPLAY
33
IMAGE DATA OUTPUT CIRCUIT
Ro1
Go1
Bo1
33
COLOR CONVERTER
Ro
Go
Bo
31
IMAGE DATA INPUT CIRCUIT
Ri
Gi
Bi
Ri1
Gi1
Bi1
CONVERSION CHARACTERISTICS DATA
35
CONVERSION CHARACTERISTICS STORAGE
CONVERSION CHARACTERISTICS DATA
36
CONVERSION CHARACTERISTICS SETTING MEANS
CONVERSION CHARACTERISTICS DESIGNATION DATA
37
CONVERSION CHARACTERISTICS DESIGNATION MEANS

FIG. 2

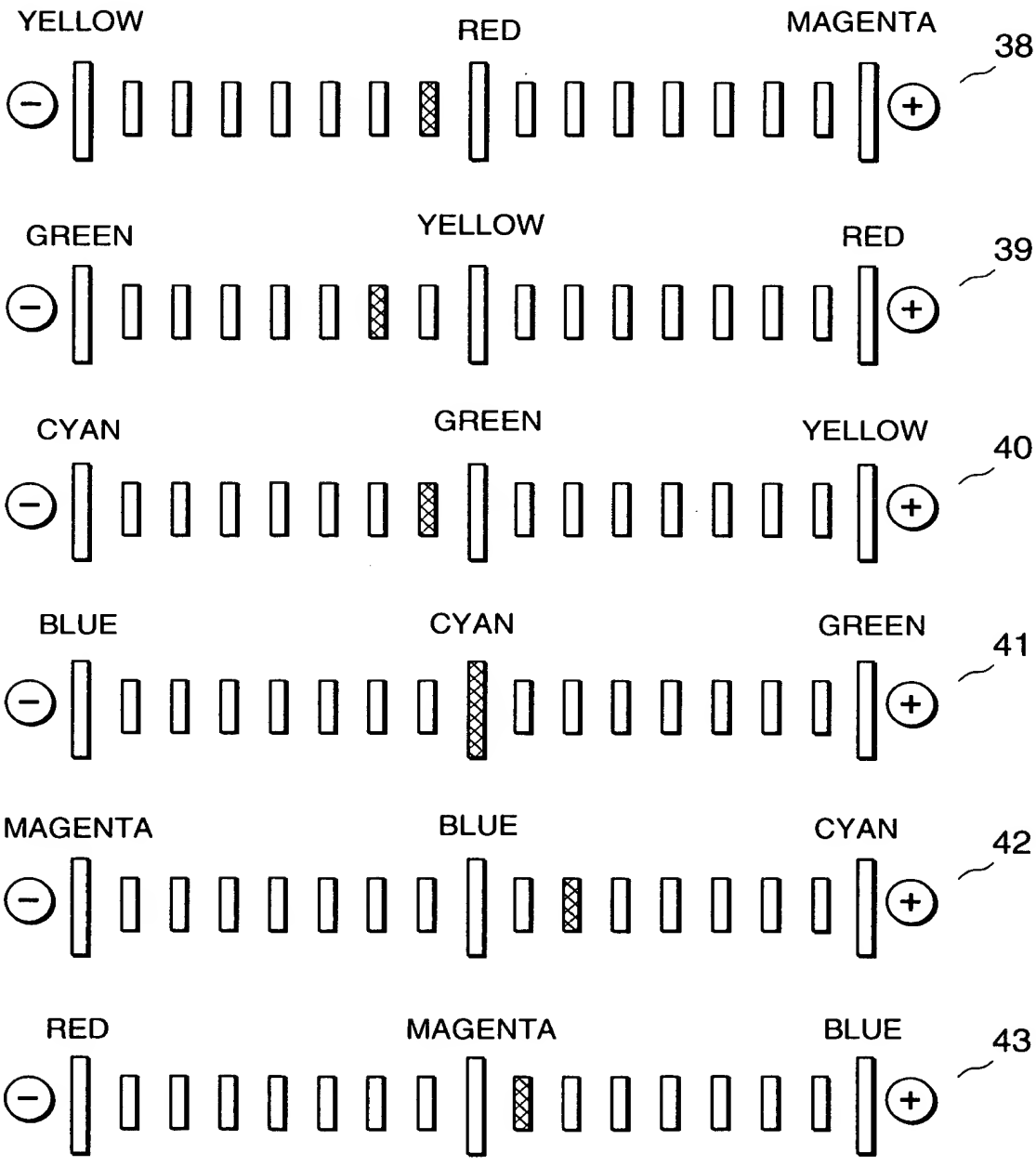

YELLOW
RED
MAGENTA
38
GREEN
YELLOW
RED
39
CYAN
GREEN
YELLOW
40
BLUE
CYAN
GREEN
41
MAGENTA
BLUE
CYAN
42
RED
MAGENTA
BLUE
43

FIG. 3

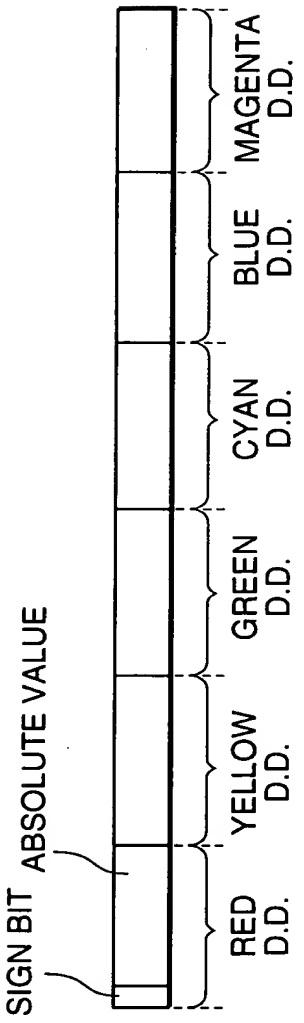

SIGN BIT
ABSOLUTE VALUE
RED D.D.
YELLOW D.D.
GREEN D.D.
CYAN D.D.
BLUE D.D.
MAGENTA D.D.

FIG. 4

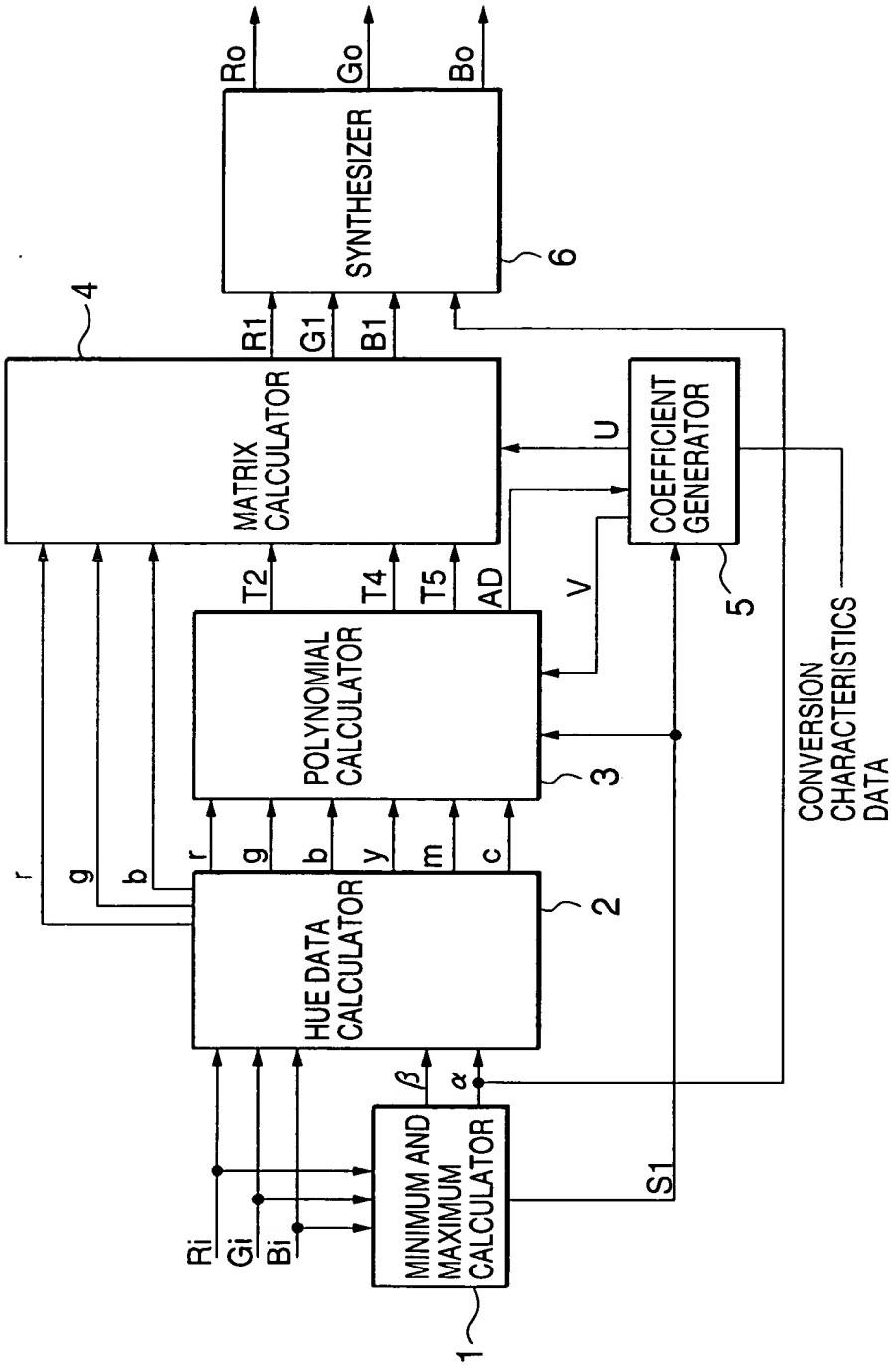

Ro
Go
Bo
SYNTHESIZER
6
4
R1
G1
B1
MATRIX CALCULATOR
U
COEFFICIENT GENERATOR
5
T2
T4
T5
AD
V
POLYNOMIAL CALCULATOR
3
r
g
b
y
m
c
HUE DATA CALCULATOR
2
β
α
MINIMUM AND MAXIMUM CALCULATOR
1
Ri
Gi
Bi
S1
CONVERSION CHARACTERISTICS DATA

FIG. 5

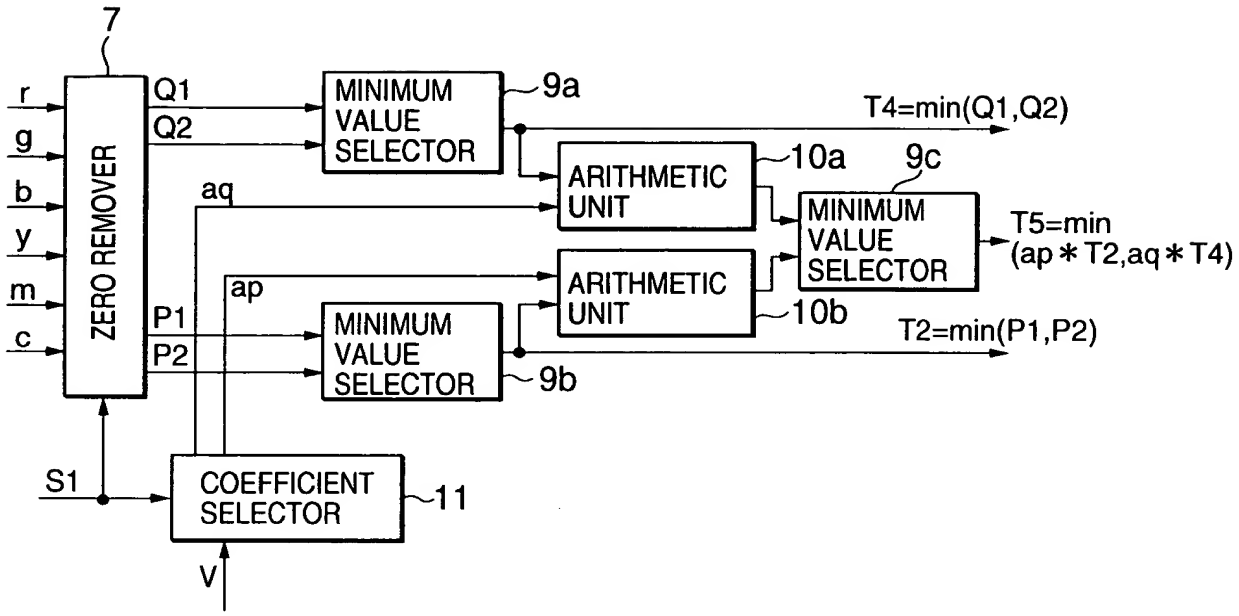


FIG. 6

IDENTIFICATION CODE S1	MAXIMUM VALUE β	MINIMUM VALUE α	HUE DATA OF A VALUE ZERO
0	Ri	Gi	g,c
1	Ri	Bi	b,c
2	Gi	Ri	r,m
3	Gi	Bi	b,m
4	Bi	Ri	r,y
5	Bi	Gi	g,y

* r=Ri-α ,g=Gi-α ,b=Bi-α
y=β -Bi,m=β -Gi,c=β -Ri

FIG. 7

IDENTIFICATION CODE S1	Q1	Q2	P1	P2
0	r	b	m	y
1	r	g	y	m
2	g	b	c	y
3	g	r	y	c
4	b	g	c	m
5	b	r	m	c

FIG. 8

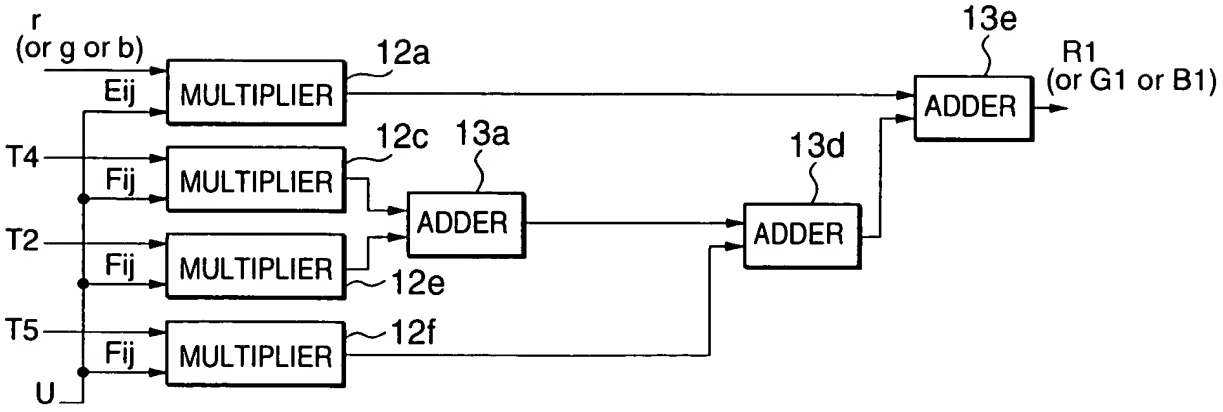


FIG. 9A

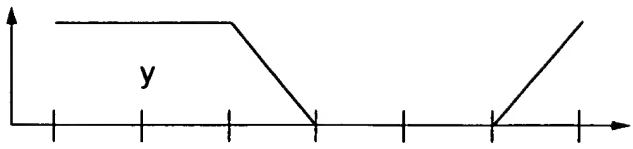


FIG. 9B

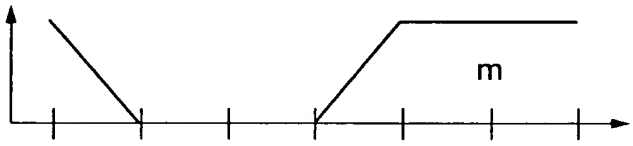


FIG. 9C

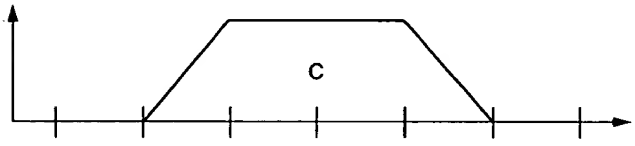


FIG. 9D

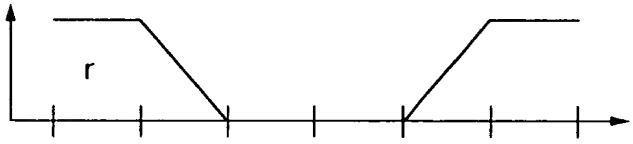


FIG. 9E

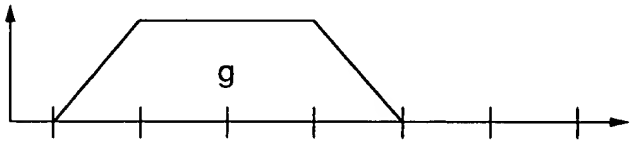


FIG. 9F

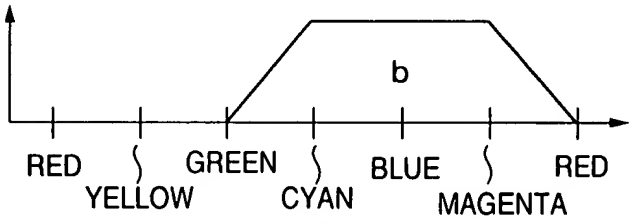


FIG. 10A

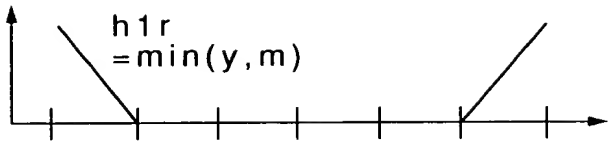


FIG. 10B

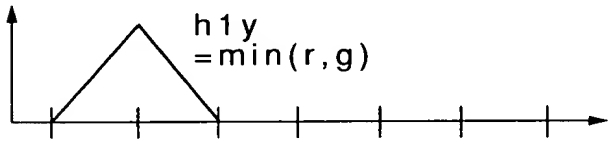


FIG. 10C

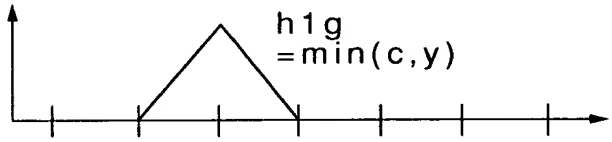


FIG. 10D

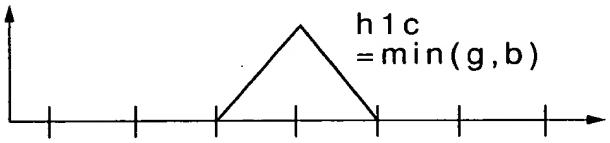


FIG. 10E

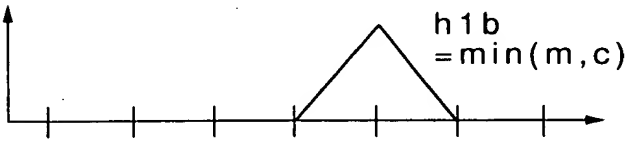
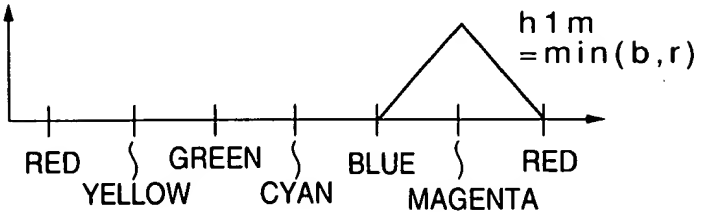


FIG. 10F



US20020055260

FIG. 11A

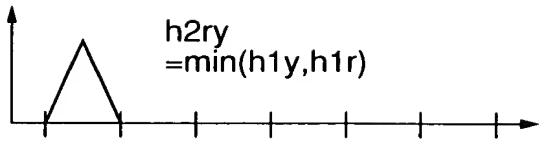


FIG. 11B

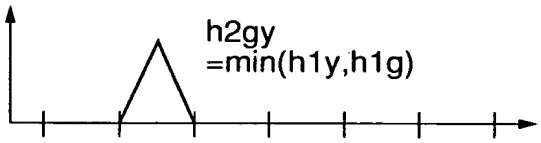


FIG. 11C

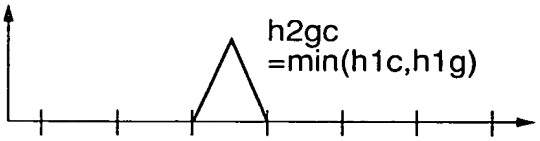


FIG. 11D

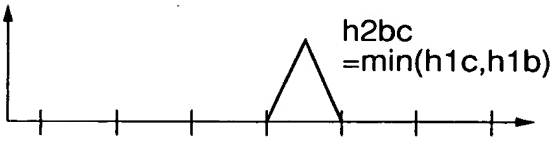


FIG. 11E

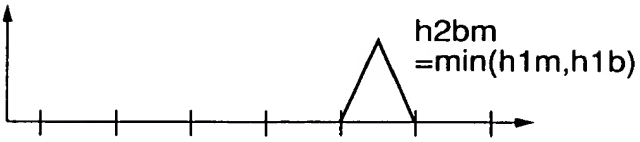
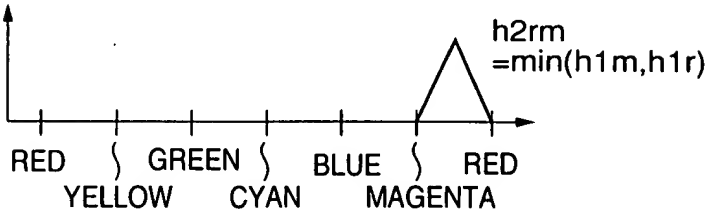


FIG. 11F



WO 2004/055760 PCT/US2003/039260

FIG. 12A

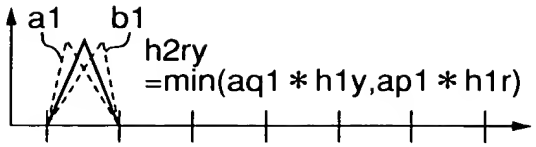


FIG. 12B

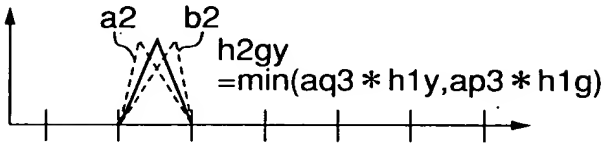


FIG. 12C

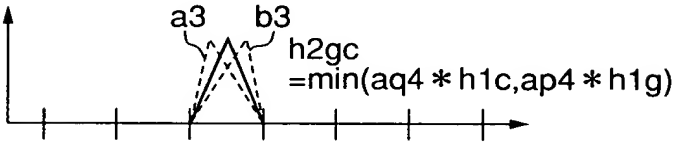


FIG. 12D

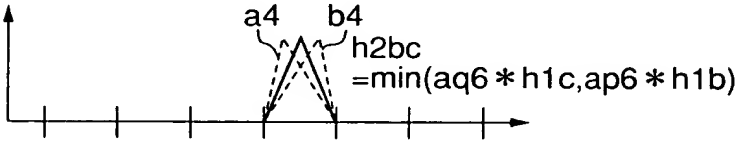


FIG. 12E

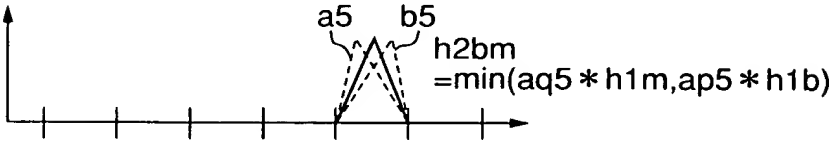


FIG. 12F

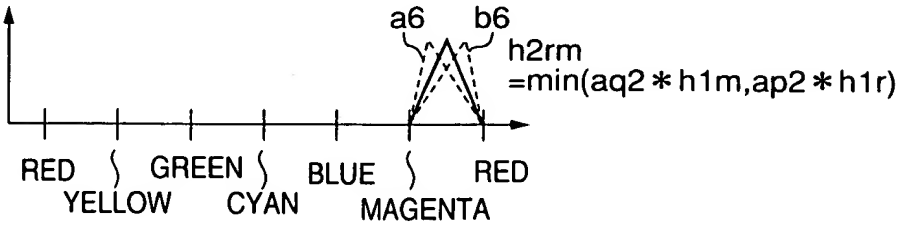


FIG. 13A

HUE	EFFECTIVE FIRST COMPARISON-RESULT DATA
RED	h1r
GREEN	h1g
BLUE	h1b
CYAN	h1c
MAGENTA	h1m
YELLOW	h1y

FIG. 13B

INTER-HUE AREA	EFFECTIVE SECOND COMPARISON-RESULT DATA
RED-YELLOW	h2ry
YELLOW-GREEN	h2gy
GREEN-CYAN	h2gc
CYAN-BLUE	h2bc
BLUE-MAGENTA	h2bm
MAGENTA-RED	h2rm

FIG. 14

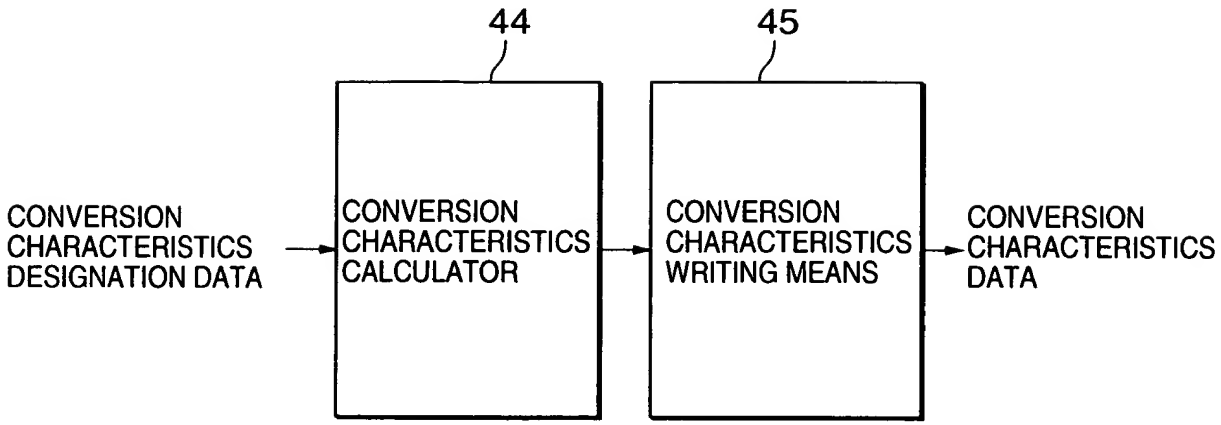

44
45
CONVERSION CHARACTERISTICS DESIGNATION DATA
CONVERSION CHARACTERISTICS CALCULATOR
CONVERSION CHARACTERISTICS WRITING MEANS
CONVERSION CHARACTERISTICS DATA

FIG. 15

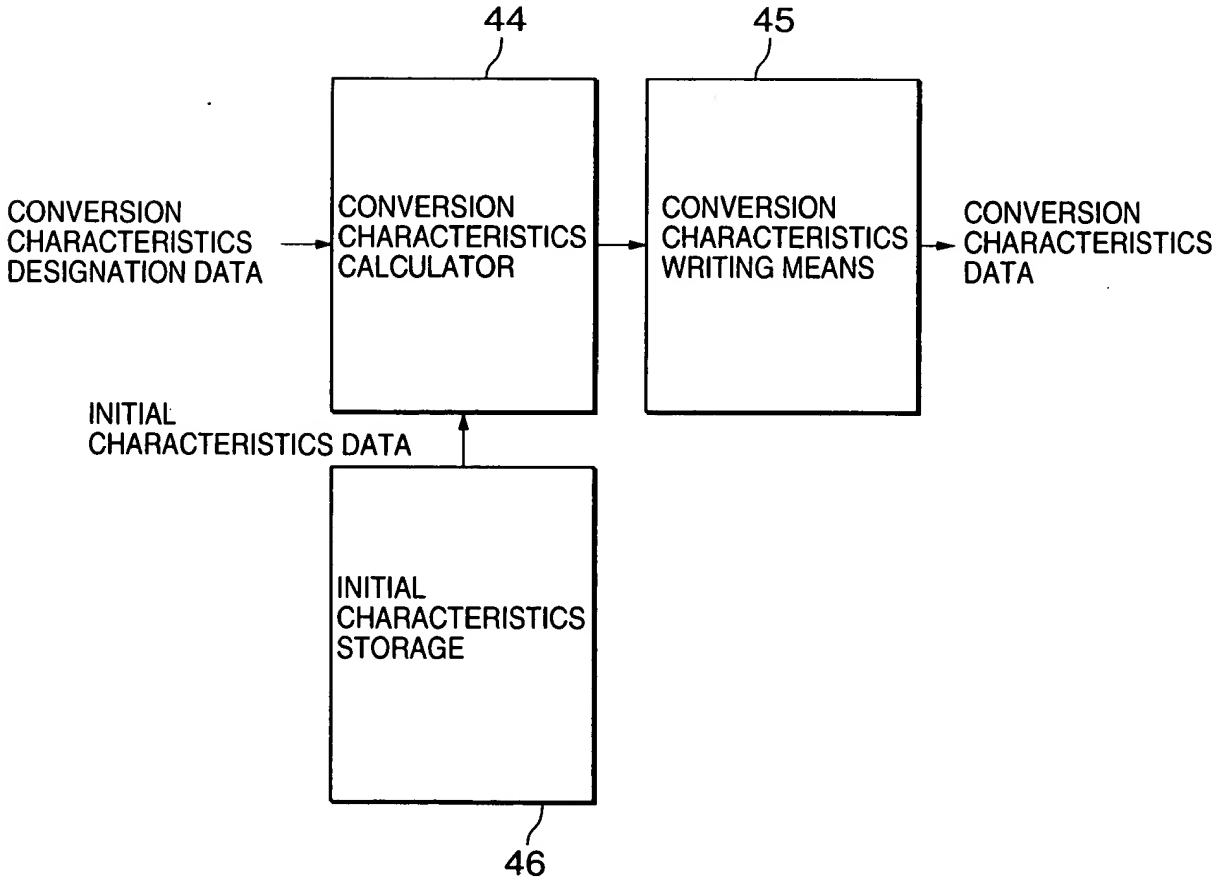

44
45
CONVERSION CHARACTERISTICS DESIGNATION DATA
CONVERSION CHARACTERISTICS CALCULATOR
CONVERSION CHARACTERISTICS WRITING MEANS
CONVERSION CHARACTERISTICS DATA
INITIAL CHARACTERISTICS DATA
INITIAL CHARACTERISTICS STORAGE
46

FIG. 16

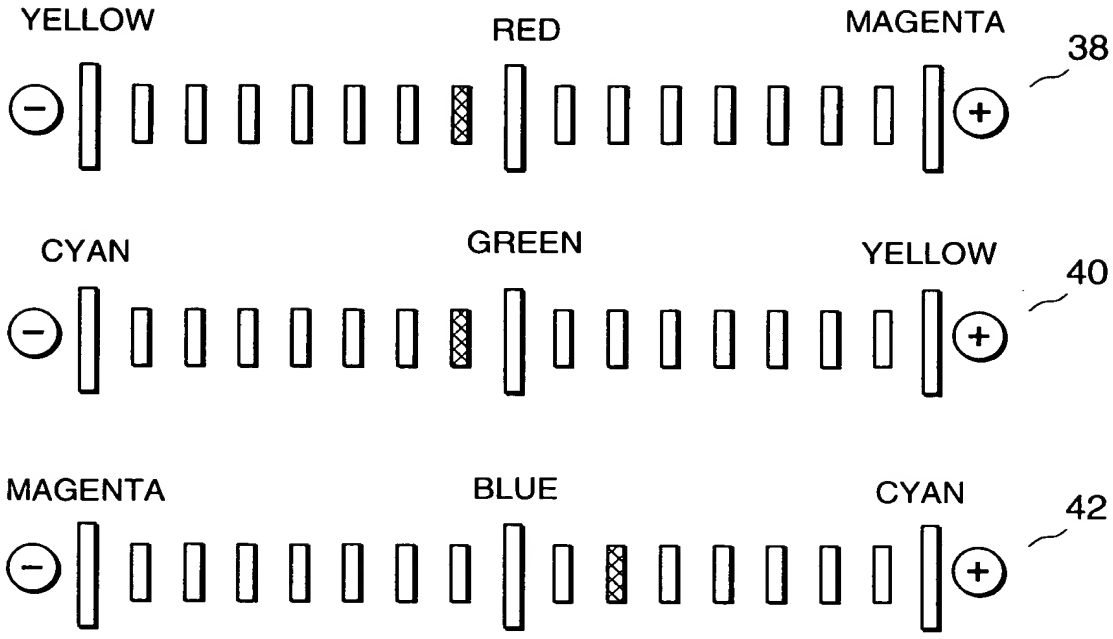

YELLOW
RED
MAGENTA
38
CYAN
GREEN
YELLOW
40
MAGENTA
BLUE
CYAN
42

FIG. 17

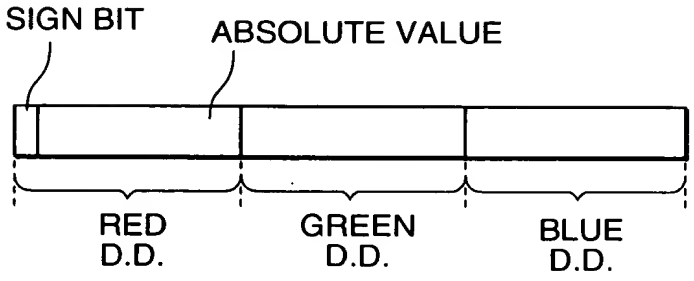

SIGN BIT
ABSOLUTE VALUE
RED D.D.
GREEN D.D.
BLUE D.D.

FIG. 18

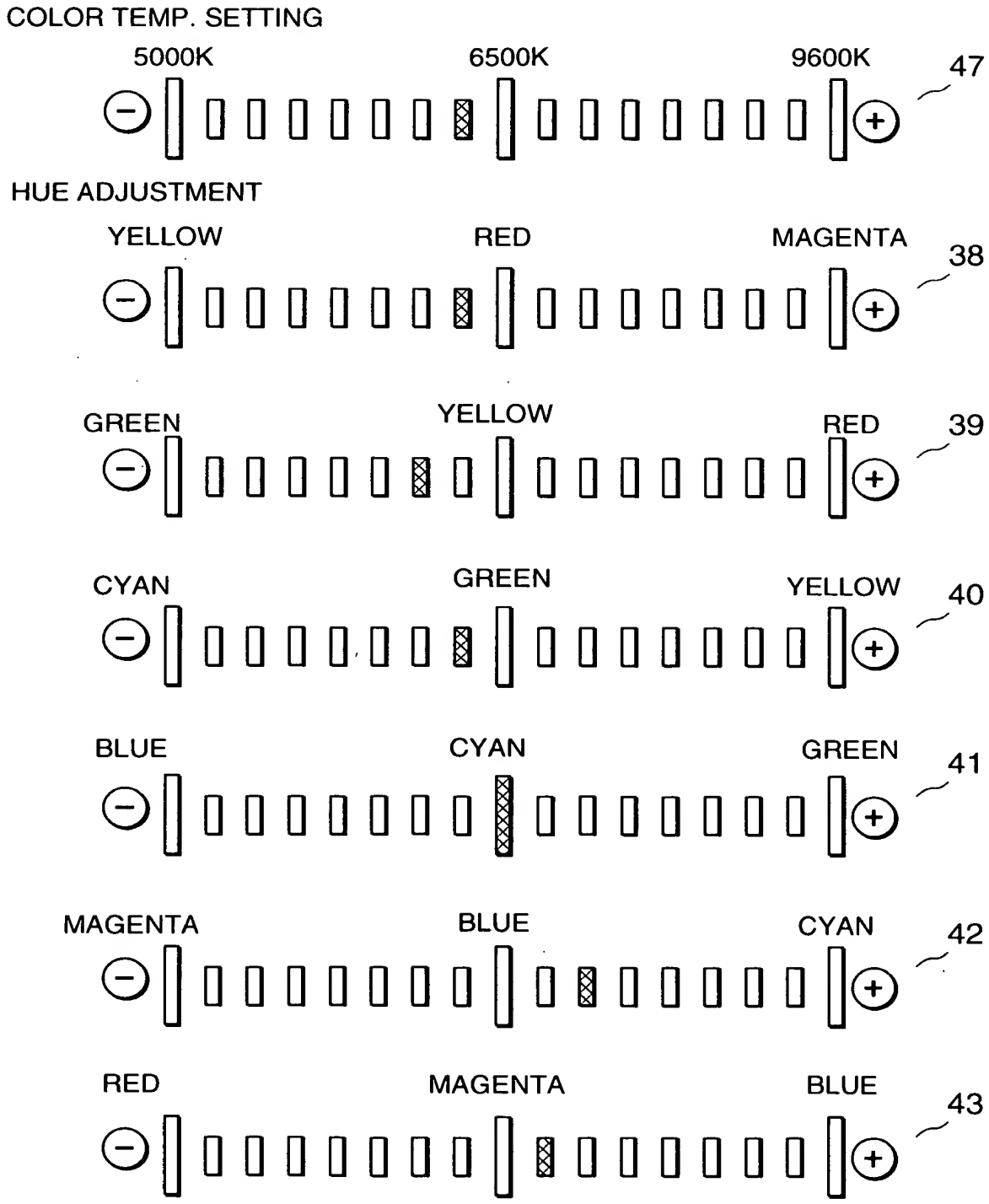

COLOR TEMP. SETTING
5000K
6500K
9600K
47
HUE ADJUSTMENT
YELLOW
RED
MAGENTA
38
GREEN
YELLOW
RED
39
CYAN
GREEN
YELLOW
40
BLUE
CYAN
GREEN
41
MAGENTA
BLUE
CYAN
42
RED
MAGENTA
BLUE
43

FIG. 19

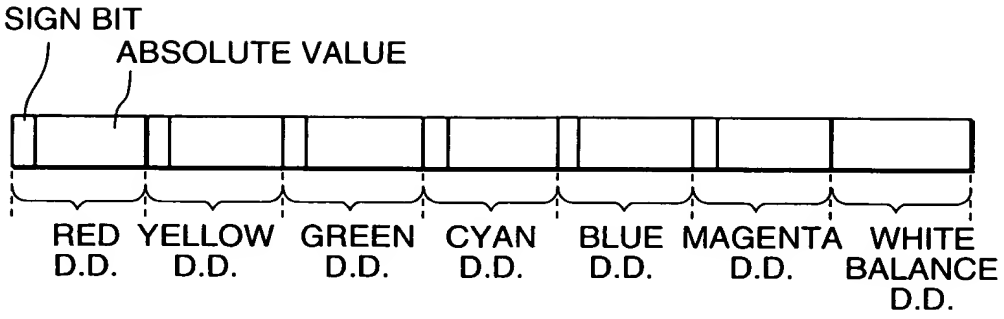


FIG. 20

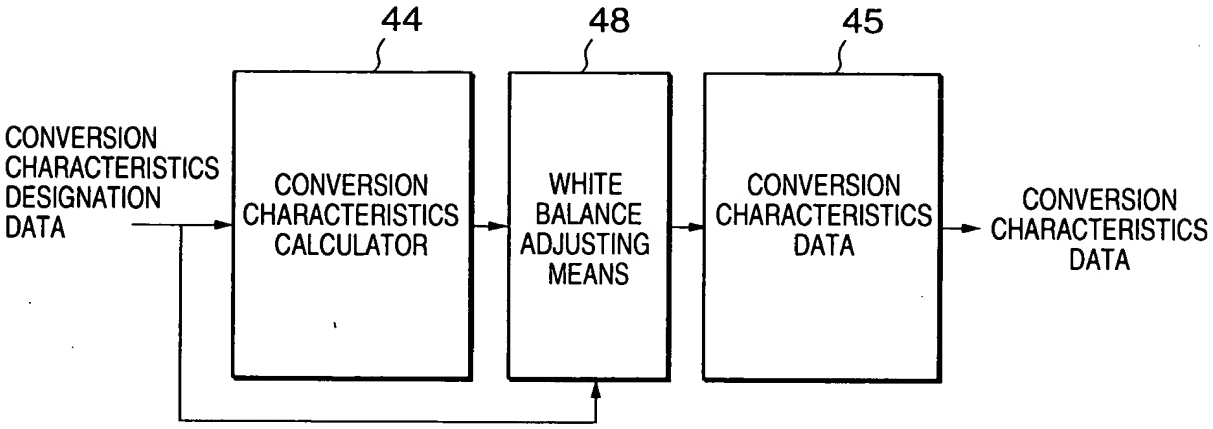


FIG. 21

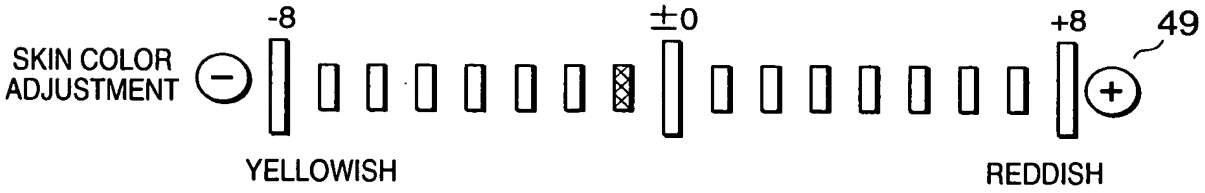


FIG. 22

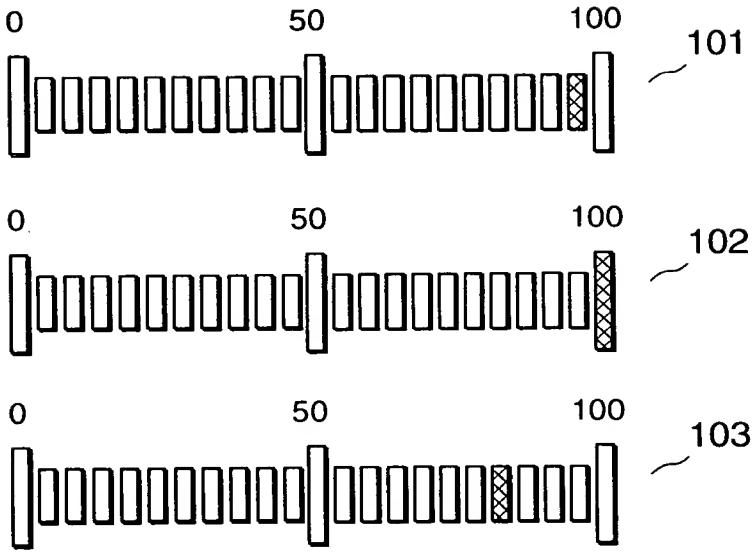
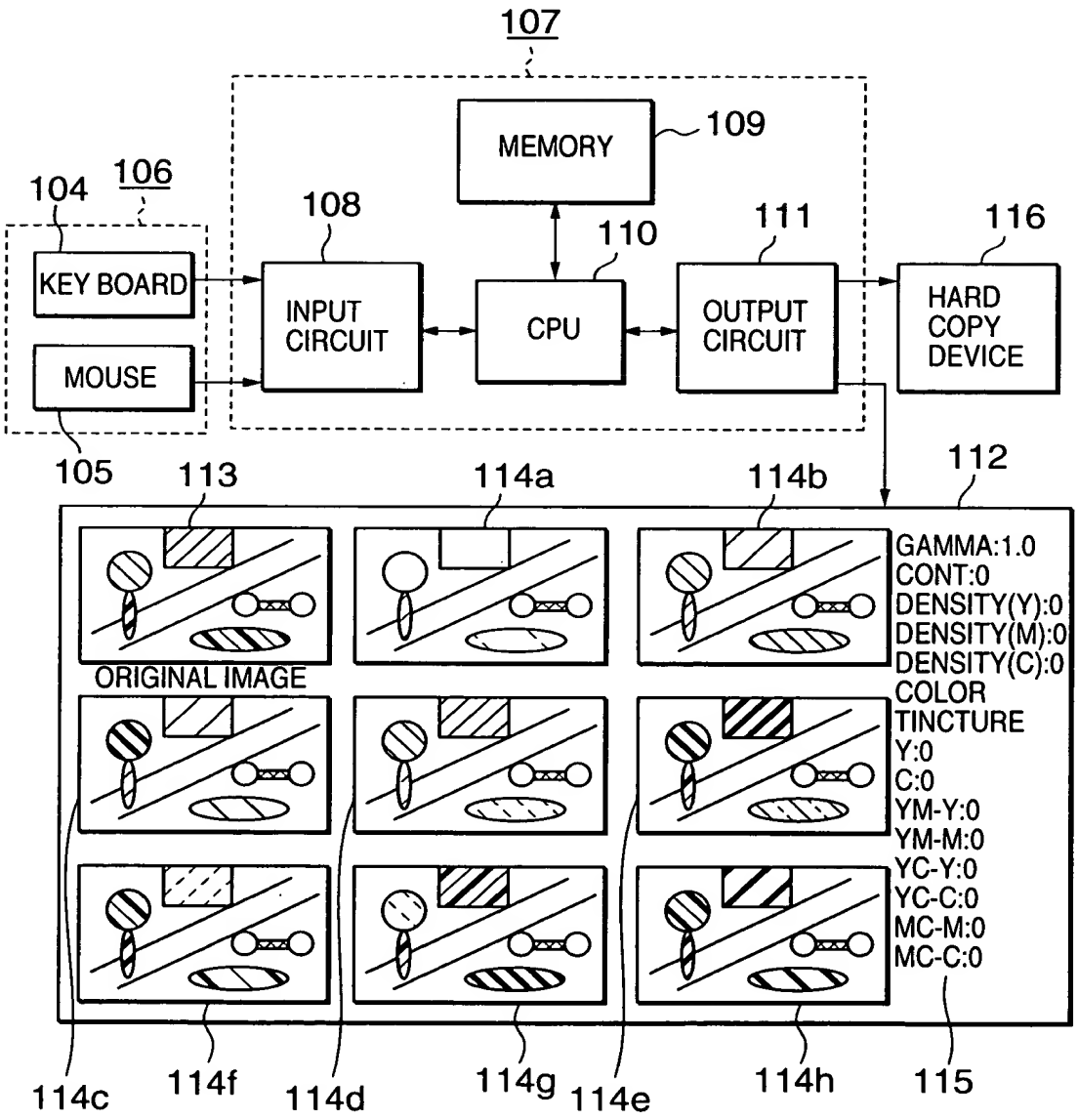


FIG. 23


107
MEMORY
109
104
106
108
110
111
116
KEY BOARD
MOUSE
INPUT CIRCUIT
CPU
OUTPUT CIRCUIT
HARD COPY DEVICE
105
113
114a
114b
112
ORIGINAL IMAGE
GAMMA:1.0
CONT:0
DENSITY(Y):0
DENSITY(M):0
DENSITY(C):0
COLOR TINCTURE
Y:0
C:0
YM-Y:0
YM-M:0
YC-Y:0
YC-C:0
MC-M:0
MC-C:0
114c
114f
114d
114g
114e
114h
115